

Computer Final Revision



2nd.Preparatoury - 1st.Term

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Unit One: Lesson 1: Concepts and basics of Websites

- **Website:** It is a site on the internet that consists of a webpage or more, it is visited through a certain web address.
- **Web Page:** It is a document with electronic content on the internet which can be shown through a web browser.
- **Home Page:** It is the opening page (main) in the website through which other pages can be visited.
- **Components of the web page:** includes texts, images, audio files, videos and hyperlinks.
- **Static Web Page:** The content of these pages is previously prepared by the page The developer. content doesn't change and can't be edited by the visitor. It is designed by HTML code.
- **Interactive Web Page:** It is a webpage that has a content allowing the visitors to interact with and manipulate. This type is designed by HTML, JavaScript, PHP and others.




Lesson Two: Stages of designing and creating A Website

Stages of designing and creating a website (5 Steps):

1. Stages of designing and creating a website	2. design the web pages.	3. prepare and develop the web pages.	4. implement the web pages.	5. publish the website on the internet.
In this stage, we draw a simple diagram of the web pages of the website, the homepage and the connected pages. Decide the information and data to be included as data or service according to the need.)	This stage is the most important one as we design the format and shape of the homepage and other pages. The different format types are designed, the color, the background, the font size and type, place of putting text, images and video clips and decide the different hyperlinks inside the same page.	This stage consists of important steps which are as follows: - Prepare the text which will be added to the page using a text editor program and save it in a folder. - Prepare the image files and save them in a folder. - Prepare the video and sound files and save them in a folder.	This is the stage when we: 1. Change the paper design into web page to be shown and visited on the internet with an internet browser program. 2. Input the data , text, images, videos and so on. 3. Create the necessary hyperlinks to connect the different pages.	-In this stage, a web address is taken and the storage capacity is decided to save on one of the servers and publish the site on the internet

Lesson Three: Create and edit audio files

There are many programs that are used on dealing with audio files. These programs help to process audio files in an easy and proper way.

Firstly: setup and processing to create an audio file stage	Secondly, implementation stage			Thirdly, modifying the sound (or audio clip)
1- Preparing for collecting data about your webpage. 2- Preparation and processing of software and hardware components: - Make sure you install a program and create audio processing on computers - Make sure your microphone is plugged to your computer to record.	- Use the "Audacity" program to create audio files and audio processing which is an open-source software, a program that can be run on different operating systems like (Windows –Linux) you can -To start voice recording through the program, click the Record button  where the program becomes in the audio recording mode. -To end entering audio data, click " Stop "  button in the program. -To listen to the sound that has been entering click " Play " button  in the program, listening to the sound through the speakers.			<ul style="list-style-type: none">▪ To add an effect on the audio clip: - Select/Highlight the required audio clip to add effect to it, then from "Effect" menu select one of the desired changes.▪ To cut and paste an audio clip: Select the audio clip you want to cut, from "Edit" menu", select "Cut"- Move the pointer on the timeline to the desired part to paste the audio clip, From the "Edit" menu, select "Paste".▪ To delete an audio section: Select the audio section you want to delete, press "Delete" from the keyboard.
Fourthly: Export an audio file with an appropriate extension.				
From the File menu , select " Export Audio " then select the appropriate extension of the audio file. There are different types of extensions of audio (WAV – MP3)	Comparison	WAV	MP3	
	Quality and purity	characterized by the sound quality and clarity	the sound is of less purity , compared with the file with WAV extension.	
	Storage	large storage capacity	less storage capacity	
	Publishing	Not appropriate via websites.	appropriate via websites.	

Lesson Four: Creating and Saving Video Files

Examples on software for creating and editing video files: - “Kdenlive” and “OpenShot”, which are **open source** and free to use and easy to operate with **Linux** and **Ms. Windows**. -There is also “**Movie Maker**” which runs in **Windows**.

The interface consists of:

- | | | | |
|-----------------|------------------|--------------------------------------|-------------------|
| 1) Main Toolbar | 2) Project Files | 3) Function Tab (Move – Audio files) | 4) Preview Window |
| 5) Edit Toolbar | 6) Zoom Slider | 7) Play head/Ruler | 8) Timeline. |

Program Timeline:

- 1- Ruler (to show the time length on the timeline).
- 2- Play Head (reads the current clip on the timeline to show in Preview Window).
- 3- Current Clip (image, sound or video).
- 4- Tracks (They are similar to Layers where images, sounds or video caption clip is put on the track. Unlimited number of tracks can be used in the project).

To create a video, follow the following steps:

1- Import images to the program	2- Import a sound file to the program	3- Preview the video.	4- Save Project:
<ul style="list-style-type: none"> -Click Import files icon + in the Main Toolbar to add the images -You can import files from File? then Import Files. -You can also drag & drop the files you need to the “Project files”. -Put the images on the program timeline. 	<ul style="list-style-type: none"> -To add sound file, click Add File icon + on the Main Toolbar and add the sound file to appear in “Project Files” tab. -Drag and drop the sound sign to insert in one track. 	<ul style="list-style-type: none"> -To preview the video, click the Play icon in the Preview window. 	<ul style="list-style-type: none"> -Save all the files (images, sound, text, etc.) in one folder. -On the Main Toolbar, select “File” then “Save Project as” -Name the Project “.osp” and choose the folder to save in. -End the program.

After previewing the Video, the clip may need some editing like Reorder the scenes, delete, increase the time, decrease the time or adjust the time to match the sound file length.

Control the play time of the Video Clip	Control the time length for images and sound on the timeline:	Add Effects to a Video Clip:	Second: Add Transitions to a Video Clip:
We can control the sound clip to end at the same time with the last image clip on the timeline.	<ul style="list-style-type: none"> -Define the time length of the clip on the timeline. -Drag and drop the head of the play indicator and move it till it goes to the right place on the timeline. -Right click the clip Track, a drop box appears, select: <ul style="list-style-type: none"> - Slice Clip to split the clip into two slides. -Keep Both Slides, the right and left slides are kept. -Keep the left slide. -Keep the right slide. 	<p>Click the Effects tab. Drag and Drop an effect to add it to the clip. The effect sign appears on the clip. To read the effect name put the cursor on the effect sign. To delete the effect, right click the effect sign and select "Remove Effect".</p>	<p>Click the Transitions tab. Some transition appears. Drag and drop one transition and add it to the clip. Add a transition at the beginning and at the end of the clip. Clip the transition time length by drag and drop it to increase or decrease it.</p>
		<p>Add Text to a Video clip:</p> <p>From Title menu, select Title. Fill in the dialog box. Save text in a file "Save". -Name the text file in English. The text file is found in "Project Files". Add text file to the video clips by drag & drop the text file and add it to a track.</p>	<p>Export a Video Clip to file</p> <p>1.Press "Export Video". 2.In the Dialog box of "Export Video", select the following: a)"File Name". b)Folder Path. c)Extension of the Target video File. d)Decide the Quality level. e)Export the video by pressing "Export Video".</p>

Comparison	AVI	MP4
Quality and purity	original quality	less purity, compared with the file with AVI extension.
Storage	large storage capacity	less storage capacity
Publishing	Not appropriate for publishing via websites.	appropriate for publishing via websites.

Unit One: Lesson One: Create Web Pages by Using HTML

HTML (Hyper Text Markup Language)

-It is a **coding language** used to create internet pages which are used through an internet browser (e.g. : Internet explorer- google chrome, Opera,...)

HTML codes:

To create a **static web page**, HTML codes are used, these codes are **called Tags**. An internet browser executes these tags on the browser page.

To create a web page using HTML tags, do as follows:

- Create a **text file** using a text editor to write and edit the HTML tags (ex: Notepad)
- Write the HTML tags between these signs “< ... >”.
- Write most of the tags with a **start " < >"** and an **end "</... >".**
- **Save** the text file with the HTML tags **with.htm** or **.html extension**
- **Open** the saved file **using a web browser** and notice the result.
- **Write** HTML tags in **capital** or **small** letters.

The Structure of creating a web page using HTML:

The HTML tag is divided into **two parts**:

- 1- **Head:** the part where the page information is written for the browser like page title.
- 2- **Body:** the part where the content is written.
- 3- **Some HTML tags to create a web page as follows:**

Tag	Function	Associated Properties
<html>	Written at the beginning of the code to refer that the document is written by html.	
<head>	A place where we write the web page title to the browser	
<body>	A place where we write the content that will appear inside the web page	Dir – bgcolor - background
<title>	Choose a title to the web page	

Tag	Function	Associated Properties
<code>
</code>	Finishing the current line and start a new line	
<code><center></code>	To add a text in the middle of the line	
<code>&nbsp;</code>	To insert a space between words in the browser	
<code></code>	To control the font format	Face-color-size
<code><u></code>	underline	
<code></code>	bold	
<code><i></code>	italic	
<code></code>	To display the image in the web page	src-height-width-align

(Note: "Internet Explorer" is the only browser that supports the `<bgsound>` tag)

(Note: If the audio in another folder, we must write the complete path of the audio file)

